

Title (en)  
Process for packed bed bioreactor for biofouling control of reverse osmosis and nanofiltration membranes

Title (de)  
Verfahren für Bioreaktor zur Bekämpfung von Biobewuchs von Umkehrosmose- und Nanofiltrationsmembranen

Title (fr)  
Procédé pour traitement dans un bioréacteur à lit fixe pour lutter contre le bio-encrassement de membranes d'osmose inverse et de nanofiltration

Publication  
**EP 2496528 A1 20120912 (EN)**

Application  
**EP 09782608 A 20090904**

Priority  
EP 2009061456 W 20090904

Abstract (en)  
[origin: WO2011026521A1] An installation and a method for removing dissolved biodegradable compounds as a biological treatment step upstream of an equipment to be protected from biofouling being part of a ground water, surface water or tertiary wastewater treatment line, wherein said upstream biological treatment step is carried out in at least one packed bed bioreactor comprising a vessel or a tank filled with packing elements, characterized in that: iv) said packing elements of said packed bed show a void fraction of at least 70% and the flow velocity of water through said packed bed bioreactor is at least 20 m/h, so that said packed bed does not have a removal efficiency of suspended solids in water, if any, of more than 30%; v) said packing elements of said packed bed show a specific surface area of at least 750 m<sup>2</sup>/m<sup>3</sup>; vi) said process does not require the use of any biocide or biostatic compound.

IPC 8 full level  
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Citation (search report)  
See references of WO 2011026521A1

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